

## Product Information

### **MemDX™ Membrane Protein Human GJA1 (Gap junction protein alpha 1) Expressed *in vitro* *E.coli* expression system, Full Length of Mature Protein**

Cat. No.: **MPX2507K**

This product is for research use only and is not intended for diagnostic use.

This product is a Human GJA1 membrane protein expressed *in vitro* *E.coli* expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

#### Product Specifications

##### **Host Species**

Human

##### **Target Protein**

GJA1

##### **Protein Length**

Full Length of Mature Protein

##### **Protein Class**

Receptor

##### **TMD**

4

##### **Sequence**

MGDWSALGKLLDKVQAYSTAGGKVWLSVLFIFRILLGLTAVESAWGDEQSAFRCNTQQPGCENVCYDKSFPISHVRFWVLQIIFVSY

#### Product Description

##### **Expression Systems**

*in vitro* *E.coli* expression system

##### **Tag**

10xHis tag at the N-terminus

##### **Protein Format**

Soluble

##### **Form**

Liquid or Lyophilized powder

##### **Buffer**

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

### Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

### Target

#### Target Protein

GJA1

#### Full Name

Gap junction protein alpha 1

#### Introduction

This gene is a member of the connexin gene family. The encoded protein is a component of gap junctions, which are composed of arrays of intercellular channels that provide a route for the diffusion of low molecular weight materials from cell to cell. The encoded protein is the major protein of gap junctions in the heart that are thought to have a crucial role in the synchronized contraction of the heart and in embryonic development. A related intronless pseudogene has been mapped to chromosome 5. Mutations in this gene have been associated with oculodentodigital dysplasia, autosomal recessive craniometaphyseal dysplasia and heart malformations.

#### Alternative Names

GJA1; HSS; CMDR; CX43; EKVP; GJAL; ODDD; AVSD3; EKVP3; HLHS1; PPKCA; gap junction alpha-1 protein; connexin-43; gap junction 43 kDa heart protein; gap junction protein, alpha 1, 43kDa; Gap junction protein alpha 1

#### Gene ID

[2697](#)

#### UniProt ID

[P17302](#)